adinstbpm - Task #18324

Milestone # 17719 (New): Booster operational test of one crate alongside existing BPM system

Implement polynomial scaling

11/16/2017 04:26 PM - John Diamond

Status:	Resolved	**Start date:**	11/16/2017
Priority:	Normal	**Due date:**	
Assignee:	John Diamond	**% Done:**	100%
Category:		**Estimated time:**	2.00 hours
Target version:		**Spent time:**	1.00 hour
Description			

Peter wants 5th order polynomial scaling.

History

#1 - 11/17/2017 11:30 AM - John Diamond

- % Done changed from 0 to 90

Implemented n-order polynomial scaling (up to 9 but that is easily expanded). Made the first coefficient the offset and changed the linear scaling method to do this as well for consistency-sake.

Also modified BBPM250x12 to scale position readings according to the coefficients that Peter gave me.

Could not obtain a beam signal because we're still having problems with Peter's clock decoder so I couldn't test against beam.

#2 - 11/17/2017 02:40 PM - John Diamond

- Status changed from Work in progress to Resolved

- % Done changed from 90 to 100

Verified with beam via BBPM250x12 ACNET. Position results look good.